











EC/JRC Nuclear Science Training Course with Nucleonica

ITRAC-3: 3rd Training Course on Illicit Trafficking and Radiological Consequences with NUCLEONICA











11-13 May 2011

*To be held at the IHK Haus der Wirtschaft
Lammstraße 13-17. 76133 Karlsruhe, Germany*


11 May – Introduction









9:00	 Welcome on behalf of Inst. f. Transuranium Elements	J.-P. Glatz, ITU
9:15	 Nucleonica Overview	J. Magill, Nucleonica
9:35	 Radiological Quantities and Units	J. Magill
10:05	 Hands on exercises: Mass Activity Calculator	 Exercises Z. Soti, ITU
10:30 – Coffee		
Basic Nucleonica Applications		
10:50	Participants give a short presentation on their work and experiences with Nucleonica	
12:30 – Lunch		
Chairperson Z. Soti		
13:30	 Chart of Nuclides / Nuclear Data in Nucleonica	J. Magill
14:15	 Using Nuclide Mixtures in Nucleonica	R. Dreher, Nucleonica
15:00 – Coffee		
15:30	 Radioactive Decay Calculations with Nucleonica	J. Magill
16:00	 Hands on exercises: Decay engine, Mixtures, Data	 Exercises Z. Soti
17:00 – End of Session		

12 May – Illicit Trafficking

Chairperson A. Berlizov		
9:00	 Detection & forensic analysis of uranium materials	 Exercises K. Mayer, ITU
10:15 – Coffee		
10:45	 Introduction to Gamma Spectrum Generator (GSG)	 Exercises A. Berlizov, IAEA
12:00	 Hands on exercises: Cambio / GSG	 Exercises Z. Soti
12:30 – Lunch		
Chairperson Z. Soti		
13:30	 Gamma Library creation with Nucleonica	 Exercises J. Zsigrai, ITU
14:30	 Radionuclide Identification using WESPA	Z. Soti
15:00 – Coffee		
15:30	Plutonium: an anthropogenic element under nuclear forensic investigation	 Exercises M. Wallenius, ITU
16:30	Case Study: Fukushima I Decay Heat	J. Magill
17:00 – End of Session		
19:00 – Social Event		

13 May – Radiological Consequences

Chairperson J. Magill

9:00	 Radiological Exposure Devices	 Exercises	H. Hrnccek, ITU
10:15 – Coffee			
10:45	 Gamma Dosimetry & Shielding (D&S)	 Exercises	J. Galy, ITU
12:00	 Hands on exercises: D&S	 Exercises	Z. Soti
12:30 – Lunch			
13:30	 WebGraph		R. Dreher
14:15	 Wiki, Blog, Forum, News		Z. Soti
15:00 – Coffee			
15:30	Feedback, Questionnaire, Certificate		All
16:00 – End of Training Course			